CALLAWAY GOLF COMPANY,	)
Plaintiff,	) C. A. No. 06-91 (SLR)
v.	)
ACUSHNET COMPANY,	Ś
Defendant.	)

## ACUSHNET'S BENCH MEMORANDUM REGARDING THE TESTIMONY OF DR. RISEN ON THE SUBJECT OF COMMERCIAL SUCCESS

Acushnet files this bench memorandum to address a matter left unresolved at the pretrial conference: the testimony of Dr. Risen, Callaway's validity expert and a chemist with no background or training in sales or marketing, regarding the relative importance of the performance of the Pro V1 in that ball's commercial success. Acushnet first raised this issue as an in limine matter in the proposed pretrial order. [D.I. 334 at Ex. 14, no. 9]. While the issue was not addressed at the pre-trial conference, Dr. Risen may testify as early as this afternoon. Acushnet seeks to preclude Dr. Risen from testifying that the primary reason for the Pro V1's commercial success was practicing the patents-in-suit.

Dr. William M. Risen is a professor of chemistry at Brown University. He is not an economist; nor does he possess any special skill or expertise in marketing, advertising, consumer surveys or branding. Acushnet believes that in addition to eliciting technical testimony as to the primary considerations of obviousness, Callaway intends to have Dr. Risen testify that the Pro V1 golf ball enjoyed extraordinary commercial success, and that this commercial success was primarily due to the ball's incorporation of Sullivan's patents. Dr. Risen devotes several pages of his report to advancing this assertion. Ex. 1, Risen Report at ¶¶ 217-243. Acushnet does not seek to exclude testimony from Dr. Risen that the Pro V1 was a success, or even that the technology of the patents-in-suit may have been one reason for that success. What Dr. Risen is

not qualified to opine on, however, and what Acushnet requests the Court to exclude from his testimony, is his assessment of which of the factors leading to the Pro V1's commercial success was the most important.

Proof of commercial success requires a different kind of expertise than obviousness in the main. To go further, and not only prove commercial success but also allocate the reasons for that success to different contributing factors, requires an even higher level of expertise in areas distinct from those in which Dr. Risen is qualified. In contrast to the technical facts needed to prove the "primary considerations" of obviousness, "to establish commercial success, the patentee must be armed with evidence of market share, growth in market share, and replacement of prior sales by others." Brand Mgmt. v. Menard, Inc., No. 97-1329, 1998 U.S. App. LEXIS 493, at \*32 (Fed. Cir. Jan. 14 1998) (citing Kansas Jack, Inc. v. Kuhn, 719 F.2d 1144, 1150 (Fed. Cir. 1983)). Often, technical experts lack sufficient knowledge of these sales and market trends to offer opinions on commercial success. See, e.g., Advanced Med. Optics, Inc. v. Alcon Inc., C.A. No. 03-1095-KAJ, 2005 U.S. Dist. LEXIS 5803, at \*9 (D. Del. April 7, 2005); Pfizer Inc. v. Teva Pharms. USA, Inc., 461 F. Supp. 2d 271, 276 (D.N.J. 2006) ("Dr. Helfgott's expertise in rheumatology does not qualify him as an expert about what all doctors generally consider when making prescription decisions.") (citing In re Diet Drugs Liab. Litig., No. 1203, 2000 U.S. Dist. LEXIS 9037, \*36 (E.D.Pa June 20, 2000)).

To be admitted under Rule 702, an expert must be qualified, his methods must be reliable, and the testimony must fit, or assist the trier of fact. See Elcock v. Kmart Corp., 233 F.3d 734, 741 (3d Cir. 2000); In re Paoli R.R. Yard PCB Litigation, 35 F.3d 717, 742 (3d Cir. 1994). Dr. Risen's technical expertise and research simply does not qualify him to opine on the relative weight to be placed on the different reasons for the commercial success of the Pro V1 golf ball.

The case law is clear that a patent expert's technical expertise does not, alone, qualify him to testify to commercial success. In Advanced Med. Optics, Inc. v. Alcon Inc., C.A. No. 03-1095-KAJ, 2005 U.S. Dist. LEXIS 5803, at \*6-13 (D. Del. April 7, 2005), Judge Jordan

excluded the testimony of a technical expert, a doctor with expertise in cataract surgery, on the sales and market trends for the accused surgical equipment. The Court found that, despite the doctor's "many years of experience using such machines in the performance of cataract surgery," his testimony on the sales and market trends for the equipment would be excluded under Rule 702 because he lacked sufficient expertise on those subjects and his opinion lacked sufficient factual bases. *Id.* at \*13.

Dr. Risen is a chemistry professor – not an expert on sales and marketing in the golf industry. His only experience with the golf industry was as a technical consultant. Ex. 2, Risen Tr. at 30:17-31:3; 33:23-41:5. As a consultant, he dealt "with the scientists and technicians in the laboratory." Ex. 2, Risen Tr. at 34:17-35:8.

Dr. Risen does not purport to be an expert on the Pro V1's commercial success. Dr. Risen candidly admits that he lacks "the kind of expertise that a market analyst or a financial analyst or a sales organization might have." Ex. 2, Risen Tr. at 249:2-250:4. His "industry" knowledge comes from personal experience such as "play[ing] golf" and "read[ing] magazines." Ex. 2, Risen Tr. at 249:2-250:4.

In addition to his lack of commercial-related experience, Dr. Risen failed to perform any meaningful investigation upon which to base his opinions. He did not conduct or commission any studies into the success of golf balls on the market. Ex. 2, Risen Tr. at 250:24-251:5. He has not seen any studies on the effect of brand loyalty or tour player endorsement on golfers' choice of golf balls. Ex. 2, Risen Tr. at 256:6-16. He has never seen any sales figures for any golf balls on the market. Ex. 2, Risen Tr. at 251:6-11 (excepting articles in golf magazines). He has not reviewed data on Acushnet's marketing expenditures. Ex. 2, Risen Tr. at 251:19-253:23.

The facts of Advanced Medical Optics are particularly analogous to the present case. There the technical expert admitted that he had no expertise in the sales and marketing of the accused products:

Dr. Olson admitted during his deposition that he lacks specialized training in analyzing sales or market trends for phacoemulsification machines . . . .

A. I'm not in sales and marketing, but I do see sales and marketing figures. ... I think I have an interest, but I don't claim any special expertise.

Advanced Med. Optics, Inc., 2005 U.S. Dist. LEXIS 5803, at \*7-8 (quoting expert Dr. Olson's deposition). Dr. Risen admitted exactly the same thing in his deposition:

I certainly know something about the industry, and I've heard a fair amount about it. . . . But I don't have the kind of expertise that a market analyst or a financial analyst or a sales organization might have.

Ex. 2, Risen Tr. At 249:2-10. In Advanced Medical Optics, the Court found the expert's consultation with several colleagues to be an inadequate basis for his opinion regarding buying preferences in the industry:1

Dr. Olson's opinion regarding the general preferences of other surgeons is speculative and not supported by reliable data. The basis for his opinion on this point is that two of his colleagues have preferences for devices with Occlusion Mode . . . .

Advanced Med. Optics, Inc., 2005 U.S. Dist. LEXIS 5803, at \*9-12. Dr. Risen likewise admitted that his opinion regarding what influences golf ball purchasing decisions was based in large part upon his personal observations of people that he played with:

Well, to the extent that I can reflect what my personal experience is, it's, of course, limited to my personal experience, which means playing with some limited number of people in Rhode Island and Massachusetts and Florida and Arizona and various places that I've played.

Ex. 2, Risen Tr. At 257:23-258:3.

Furthermore, in Advanced Medical Optics, the court held that the fact that the technical expert was a surgeon himself and an "expert consumer" of the accused hardware did not justify admitting the testimony. Advanced Med. Optics, Inc., 2005 U.S. Dist. LEXIS 5803, at \*8-13. Dr. Risen is not even an "expert consumer" of golf balls. His experience with golf balls regards golf ball design – not purchase and use.

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<sup>&</sup>lt;sup>1</sup> The court also found it relevant that the technical expert did not supplement these personal observations with any sort of studies. Advanced Med. Optics, Inc., 2005 U.S. Dist. LEXIS 5803, at \*13 ("His comments also reveal that he does not know whether other surgeons agree with Bruce Wallace's view, nor has he conducted a survey to find out."). Neither has Dr. Risen. Ex. 2, Risen Tr. At 258:22-259:5

Dr. Risen simply does not have the training and experience to render an opinion on what caused the commercial success of the Pro V1. His ability to take a further step and to allocate responsibility for commercial success to individual causes, claiming "the primary reason for the commercial success of the Pro V1 is the increased performance obtained by using the patented invention," Ex. 1, Risen Report at ¶ 243, must be even more in doubt. Dr. Risen, a chemist, simply is not qualified to opine as to the relative impact of marketing, professional endorsements, brand loyalty and other factors of that ilk as opposed to the balls' performance. His testimony on the primacy of performance in generating commercial success is little more than his personal opinion unsupported by relevant training, experience, or industry analysis. Not only is such testimony of little probative value, and inadmissible opinion from a unqualified witness, but it is highly prejudicial. Dr. Risen's technical expertise in an unrelated area lends unfair credence to what are really nothing more than unsupported, unsubstantiated, personal impressions.

Finally, Dr. Risen relies in part to form this opinion on the hearsay testimony of professional golfers that the Pro V1 ball performs well. Ex. 1, Risen Report at ¶ 234. For reasons already argued at length in this case, reliance on such hearsay is inappropriate.

Thus, Acushnet objects under Rules 702 and 403 to the offer of any opinion by Dr. Risen on the relative importance of performance to the Pro V1's commercial success.

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## IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

#### **CERTIFICATE OF SERVICE**

I, Richard L. Horwitz, hereby certify that on December 11, 2007, the attached document was electronically filed with the Clerk of the Court using CM/ECF which will send notification to the registered attorney(s) of record that the document has been filed and is available for viewing and downloading.

I hereby certify that on December 11, 2007, I have Electronically Mailed (and hand delivered as noted) the document to the following person(s):

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# Exhibit 1

## IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

CALLAWAY GOLF COMPANY,	
Plaintiff,	
v.	C. A. No. 06-91 (SLR)
ACUSHNET COMPANY,	
Defendant.	

#### EXPERT REPORT OF WILLIAM M. RISEN, JR.

#### I. PERSONAL BACKGROUND

- 1. I am a Professor of Chemistry at Brown University. I have been retained by Callaway Golf as a consultant and expert witness in this case.
- 2. I have worked in the areas of ionomers, polyurethanes, molecular spectroscopy, organometallic chemistry, physical-inorganic chemistry, aerogels, quantized ion motion in condensed phases, and solid state chemistry. Based on my experience and education, I believe I am an expert in the chemistry and materials science of polymers and other amorphous materials.
- 3. I have been employed as a research and development consultant in the golf ball industry, in various capacities, for about 20 years. Based on this experience, I believe I possess expertise in the field of golf ball design.
- 4. I graduated from Georgetown University in 1962 with a B.S. in chemistry. I earned a Ph.D. in chemistry from Purdue University in 1967. I was a Research Fellow-Instructor at Brown University in 1966-1967. I was an Assistant Professor of Chemistry at Brown University 1967 to 1972. I was an Associate Professor of Chemistry at Brown University from 1972 to 1975. I have been a Professor of Chemistry at Brown University since 1975. From 1972 to 1980 I served as the chairman of the Department of Chemistry at Brown University.
- 5. I received a Foreign Invitational Fellowship from the Japan Society for the Promotion of Science for 2002-2003.
- 6. I was a Visiting Professor at McGill University in Montreal, Canada in 1991-1992.
- 7. In 1998, I was a Visiting Scientist at the Paul Scherrer Institute of ETH-Zurich and the Swiss Federal Science Foundation.

- 8. I am the author of over 100 publications and am named as an inventor on 37 United States patents, including 18 golf ball patents. A copy of my curriculum vitae is attached as Appendix A.
- 9. I have not testified as an expert witness within the last four years.
- 10. I am being compensated for the time I spend on this litigation at my standard rate of \$270 per hour.

#### II. SUMMARY OF WORK PERFORMED AND OPINIONS

- 11. I understand that, in this litigation, Callaway Golf has asserted that the Titleist Pro V1 family of golf balls, manufactured and sold by Acushnet, infringes various claims of the following four United States patents owned by Callaway Golf:
  - U.S. Patent No. 6,210,293 ("the '293 patent") Claims: 1, 2, 4, and 5;
  - U.S. Patent No. 6,503,156 ("the '156 patent") Claims: 1-11;
  - U.S. Patent No. 6,506,130 ("the '130 patent") Claims 1, 2, 4, and 5;
  - U.S. Patent No. 6,595,873 ("the '873 patent") Claims 1 and 3.
- 12. I also understand that Acushnet alleges that these patent claims are invalid in light of various prior art references. Acushnet has submitted an Expert Report of Dr. William J. MacKnight and an Expert Report of Dr. Robert J. Statz addressing validity.
- 13. I have been asked for my expert opinion regarding the validity of those patent claims in light of the prior art presented by Acushnet and, in particular, for my expert opinion regarding the analysis and conclusions of Dr. MacKnight and Dr. Statz.
- 14. As explained in detail below, it is my opinion that all of the asserted claims of the four patents listed above are valid over the prior art relied upon by Dr. MacKnight and Dr. Statz. In particular, I do not believe any of the asserted claims is anticipated by the prior art, nor do I believe that the invention described in any asserted claim would have been obvious to one of ordinary skill in the art at the time the invention was made.
- 15. Additionally, it is my opinion that Acushnet's U.S. Patent No. 5,885,172 includes claims to a urethane-over-ionomer multi-layer golf ball essentially the same as that claimed in the patentsin-suit. Acushnet's invalidity arguments, if accepted as evidence that the asserted claims are invalid, would also establish the invalidity of at least two claims of its own '172 patent.
- 16. In preparing this report, I have reviewed and/or relied upon portions of the materials listed in Appendix B.

- 215. I interpret Dr. Statz's report to concede that the Titleist Pro V1 and Pro V1x have, in fact, achieved extraordinary commercial success. (Statz ¶¶ 214-17.)
- 216. I therefore have no doubt that the Titleist Pro V1 and V1x have, in fact, been huge commercial successes.

#### **(b)** The Primary Reason for the Pro V1's Commercial Success is the Incorporation of Sullivan's Patented Technology

- 217. I believe that the tremendous success of the Pro V1 family of golf balls is directly attributable to the balls' superior performance. This performance is primarily the result of the use of the technology claimed in the patents-in-suit.
- 218. In a sworn affidavit submitted in the Bridgestone-Acushnet golf ball litigation, William Morgan, Acushnet's Senior VP of Research & Development for Golf Balls, stated the connection between the performance of the Pro V1 and its success:

The reason for the success of the Titleist Pro V1 beginning in 2000 is that like no other ball before it, Pro V1 delivered the combined attributes of long distance off the tee with soft feel and control into the green. (Morgan ¶ 73.)

- 219. Mr. Morgan also suggests that the success of the Pro V1 indicates that the ball represented a new idea - "The market's response to the Pro V1 clearly indicates that something new had been created." (Morgan ¶ 73.)
- 220. Mr. Bellis's declaration also states that the "superior technology that delivers superior performance" in the Pro V1 is the primary reason for the Pro V1's success. (Bellis ¶ 72.)
- 221. Mr. Love's declaration relies on a Golf Magazine article, "Great Leaps Forward," that cites the Pro V1 as the most recent of only fourteen "groundbreaking" golf inventions since 1890. (Love ¶¶ 17-18 and attached article.) Mr. Love quotes this article for its statement that "the Titleist Pro V1 'became the industry leader almost the minute it entered the market in the fall of 2000' due to its 'superior mix of distance and control around the greens.'" (Love ¶ 18.)
- 222. Attempting to deny the link between the Pro V1's performance and its commercial success, Dr. Statz downplays the Pro V1 as "a good performing golf ball" that achieves "good distance off the tee" in combination with "good spin and control." (Statz ¶ 218.) It is my understanding and belief that the performance of the Pro V1 is substantially better than "good," and that it is, in fact, exceptional. For example, sworn affidavits that Acushnet has submitted in its golf-ball litigation with Bridgestone characterize the Pro V1's performance with superlatives:
  - "exceptional distance off the tee" (Love ¶ 12)
  - "optimum spin profile" (Love ¶ 12)
  - "the Titleist Pro V1family of golf balls has performed better than any other solid golf ball I have tested" (Love ¶ 30)

- "long-flying, easy-to-control" (Bellis ¶ 68)
- "superior technology that delivers superior performance" (Bellis ¶ 72)
- "outstanding distance" (Bellis ¶ 74)
- 223. Nevertheless, Dr. Statz disputes that the commercial success of the Pro V1 and V1x is due to their use of the technology claimed in the patents-in-suit. (Statz ¶ 216.) He cites, among other factors responsible for the balls' success, Titleist's marketing and the influence of pro players on the buying public. (Statz ¶¶ 249-50.)
- 224. I do not dispute that Acushnet has a reputation for savvy marketing. However, I doubt that any product could be a commercial success without some degree of marketing, so I expect that a showing of a nexus between the patented technology and "commercial success" cannot be precluded by the fact that a product benefitted to some extent from marketing.
- 225. Moreover, Acushnet has aggressively marketed all of its premium golf ball products, including the Titleist Professional, which it sold prior to the introduction of the Pro V1. But by Acushnet's own statements and admissions, the Pro V1 was a great leap in performance and commercial success over the Acushnet balls it replaced. (See Bellis ¶ 40.) In particular, Mr. Bellis stated that "[w]hile solid construction balls existed on the market for a long time, none has had anything remotely approaching the success we have had with the Pro V1 family." (Bellis ¶ 71.) Clearly, marketing is not the primary reason for the success of the Pro V1.
- 226. I also note that Acushnet's marketing of the Pro V1 has emphasized its "resilient ionomer casing layer" and "high performance urethane elastomer cover." (E.g. CW280214, CW329360.) Thus, to the extent Acushnet claims the balls' success has been due to marketing, it is important to consider that part of what is being marketed is the ball's superior construction and performance. If Acushnet's marketing of the Pro V1 has been successful, one of the factors contributing to that success is that the ball's design enables Acushnet to advertise the urethane outer cover and ionomer mantle and their effects on performance.
- 227. Other varieties of Titleist and Pinnacle golf balls, including previous generations of such balls, have also been the subject of Acushnet's marketing, and that none of those balls has sold as well as the Pro V1 and V1x. (See Bellis ¶ 40.) In particular, Mr. Bellis stated that "While solid construction balls existed on the market for a long time, none has had anything remotely approaching the success we have had with the Pro V1 family." (Bellis ¶ 71.)
- 228. Dr. Statz states, "If the technology of the patents-in-suit were such a breakthrough over the prior art, I would have expected Spalding to have taken advantage of this technology well before it did." (Statz ¶ 251.) This is speculation. Neither Dr. Statz nor I knows the reason Spalding did not commercialize Sullivan's urethane-over-ionomer invention sooner, but it could have been due more to business and manufacturing considerations than any lack of faith in the performance of the urethane-over-ionomer construction.
- 229. For example, Top-Flite's production facilities in the mid-90's were optimized for ionomer covers, not for urethane covers. Also, urethane is comparatively more expensive than Surlyn,

- 230. Dr. Statz argues that, if the success of the patented technology were responsible for the success of the Pro V1 and V1x, then the Callaway Golf Rule 35 ball, which also embodies some of Sullivan's claims, would have taken a large share of the golf ball market. (Statz ¶ 249.) This again is speculation. There are many reasons which could explain why Acushnet succeeded in selling the Pro V1 while Callaway Golf struggled with the Rule 35.
- 231. Moreover, there is evidence showing the relative success of an Acushnet golf ball that uses the patented technology (the Pro V1) versus one that did not (the Titleist Professional). In the case of Callaway Golf, the Rule 35 was its first golf ball product, so there is no other Callaway Golf ball against which to compare the Rule 35.
- 232. Before the introduction of the Pro V1, most Titleist-sponsored players had been playing the Titleist Professional. (Statz ¶ 246.) Thus, assuming the "pyramid of influence" marketing strategy worked equally well for the Professional as it has for the Pro V1, the fact that Acushnet subsequently sold far more Pro V1's than Professionals to amateurs suggests that the "pyramid of influence" alone cannot explain the increased sales of the Pro V1.
- 233. The difference, I believe, is related to the difference in performance. As Mr. Bellis notes in his declaration, the Professional was not as good a ball for amateur players as the Pro V1 because the Professional "was less durable, had too much sidespin and [was] not as long" as other balls. (Bellis ¶ 74.) In contrast, Mr. Bellis notes that the Pro V1 "provides outstanding distance, durability, not-too-much sidespin [and] 'drop and stop; control' better than any other ball for average golfers, just like it does for the Tour Pros." (Bellis ¶ 74.)
- 234. Tour pros have confirmed that the factors Mr. Bellis cites here are what makes the Pro V1 perform well. For example:
  - Ernie Els: "The Pro V1 is great. The ball goes farther and I spin the ball better." (CW366591.)
  - Vijay Singh: "It flies higher. It flies farther. It stops on the green. It does everything you want a golf ball to do." (CW366591.) "The ball goes forever. And you can stop the ball, you can spin the ball. it's pretty much what everyone is looking for." (CW366588.)
  - Lee Westwood: "With the Pro V1, I'm definitely longer off the tee, but I'm not giving up anything in terms of control. It feels soft, and there's plenty of spin around the green." (CW280216.)
  - Steve Stricker: "It's made a big difference in my game. Around the greens, it's phenomenal. I'm able to spin the ball a lot more than I've ever been able to before." (CW366591.)
  - Mike Weir: "You can see the difference in the distance, the trajectory, and the feel around the greens. It's really a big move forwards." (CW366591.)
  - Steve Elkington: "The Pro V1 has the combination of going far off the tee, getting more control with the short shots, and having a soft feel around the green." (CW366591.)

- Davis Love III: "The Titleist Pro V1x gives me more control and feel around the greens. Ball flight, extra distance, and more control is a pretty good package." (CW366588.)
- 235. The enhanced durability, low sidespin, superior distance, and better controllability of the Pro V1 vis-a-vis the prior art are all attributable to Sullivan's technology.
  - (i) "Enhanced durability" comes from the use of a polyurethane outer cover thick enough to resist cuts and scuffs but thin enough to have a negligible effect on longer shots. Previously, "durability" was associated with hard ionomer covers, which were notorious for having poor feel and spin. Balata and soft ionomer covers had better feel and spin, but were not durable. Urethane covers on prior art balls lacking the other patented features were more durable than balata or soft ionomer covers, but tended to diminish distance and add unwanted spin.
  - (ii) "Low sidespin" and "superior distance" both result from the relative thinness of the outer cover and the presence of the hard ionomer inner cover. When hit by a driver or a longer iron, the ionomer character of the ball dominates, producing low spin and good distance.
  - (iii) Better controllability results from the urethane outer cover. When hit with a short iron, the urethane character of the ball prevails over the ionomer character. The oblique contact between the clubface and the urethane cover imparts spin to the ball, which allows skilled players to manipulate shots around the green.
- 236. Dr. Statz suggests that the aerodynamics and core composition of the ball, as well as quality control and manufacturing methods, are also responsible for the Pro V1's success. (Statz ¶¶ 220-26.) I am aware of no evidence that suggests that any of these factors is nearly as important to the Pro V1's performance, and success, as the incorporation of Sullivan's cover technology, and Dr. Statz cites none.
- 237. I note that for the 2005 versions of the Pro V1 and V1x, Acushnet reformulated the core compositions. (E.g. CW329359-62, CW334982.)
- 238. I also note that Acushnet redesigned the 2007 version of the Pro V1 and V1x to have "enhanced aerodynamics." (Bellis ¶ 77.) Presumably, there was some room for improvement in the previous aerodynamic design that warranted this change. Again, Dr. Statz does not cite any figures showing that this change improved the commercial success of the Pro V1 or V1x.
- 239. By contrast, I observe that Acushnet has never made any change to the fundamental design of the Pro V1 cover layers since the Pro V1's introduction in 2000, every version of the Pro V1, V1x, and V1 Star has had a polyurethane outer cover over an ionomer inner cover. I observe that Dr. Wilkes has concluded that all of these versions infringe the asserted claims.
- 240. It appears, therefore, that the aspects of the Pro V1 covered by the Sullivan patents have performed well enough that they have not required any redesign, whereas the same cannot be said for the ball's aerodynamics or core.

- 241. Furthermore, although I do not doubt that Acushnet holds patents on multiple aspects of the Pro V1, I have observed that many of the patents listed on the Pro V1 packaging were filed after 2000, when the original Pro V1 was introduced and became an immediate success.
- 242. Therefore, I believe that the technology most proximately responsible for the Pro V1's superior performance and immediate success was the urethane-over-ionomer multi-layer construction described in the Sullivan patents, and incorporated into the original Pro V1 ball. By the time any incremental changes were made to later versions of the Pro V1, the ball was already an overwhelming success, and I am not aware of any evidence that any of these later changes caused any increase in sales of Pro V1 balls.
- 243. Because marketing cannot explain the success of the Pro V1 over its predecessors, and because the factors most often associated with the Pro V1's superior performance are all attributable to the incorporation of Sullivan's technology, I believe that the primary reason for the commercial success of the Pro V1 is the increased performance obtained by using the patented invention.

#### The Pro V1 is "Commensurate in Scope" With the Asserted (c) **Claims**

- 244. I disagree with Dr. Statz's conclusion that the Pro V1 is not "commensurate in scope" with the asserted patent claims.
- 245. Dr. Statz argues that none of the asserted claims is narrow enough to describe the exact construction of the Pro V1. (Statz ¶ 242-43.) Of course, that is not the case; the claim limitations are appropriate. He further argues that even if the Pro V1 embodies those claims, it is not "commensurate in scope" with any claim that could read on any other configurations. (Statz ¶¶ 243.)
- 246. Dr. Statz's argument focuses mainly on the claims that recite a range of thicknesses for the inner and outer cover layers. (Statz ¶ 234-37.) I note, first of all, that not all of the asserted claims include limitations on the thickness of the cover layers. (See, for example, '293 claim 4.)
- 247. For the claims that do recite ranges of thicknesses for cover layers, I observe that these ranges are limited to a reasonable, narrow range that works. The largest range claimed for a cover thickness is 0.010" to 0.100". The difference between a cover layer .010" thick and one .100" thick is only .090", which represents only 11% of the radius of a 1.68" diameter golf ball. (See, for example, '873 claim 1, inner cover.) Some claims recite a range of 0.020" to 0.070", a span of 0.050", which is 6% of the radius of a standard-size golf ball. (See, e.g., '873 claim 1, outer cover.) Some dependent claims (e.g. '156 claims 3, 11) are more narrow still, reciting ranges of 0.030" to 0.060", a difference of only 0.030", or 3.6% of the ball's radius.
- 248. I am not aware of any rule under which an infringing product is not "commensurate in scope" with the infringed claim simply because the claim does not recite every specific detail of the product's construction, or when the infringer has availed himself of a claimed range by selecting a property within, but not fully coextensive with, that range.

were redesigned for the 2007 versions of those products. (Bellis ¶ 77.) Mr. Bellis also states that the 2007 Pro V1x has a softer cover than before. (Bellis ¶ 77.)

- 303. Thus, although Acushnet has implemented various changes to the Pro V1 balls since their introduction, Acushnet has never changed the design in a way that would avoid infringement of the patents-in-suit.
- 304. Dr. Statz explains that Acushnet obtained opinions of counsel stating that the patents-insuit were invalid, and that Acushnet has consequently felt it unnecessary to design around those patents. (Statz ¶ 271.) I do not see how Acushnet could reasonably have relied on these opinions, however, since Acushnet has successfully prosecuted patent claims on a urethane-over-ionomer multi-layer construction that are very similar to the claims of the patents-in-suit. (See paras. 198-209 above.)
- 305. Given that Acushnet could not have reasonably believed that the patents-in-suit were invalid, that the Pro V1 balls infringe these patents, and that infringement of these patents carries the risk of sizable liability, I have to assume that Acushnet would design around the patents if it were possible to do so without losing the performance advantages the patented technology confers.

#### VIII. CONCLUSION

306. I reserve the right to rebut any arguments or evidence offered in response to this report, and to supplement this report based on newly presented evidence or further analysis. I also reserve the right to supplement or amend this report based on the Court's construction of the patents-insuit. I also intend to use graphics and/or demonstrative exhibits to illustrate some of the facts and opinions I have stated here.

Dated: July 6, 2007

#### CERTIFICATE OF SERVICE

I hereby certify that on July 6, 2007, I served the EXPERT REPORT OF WILLIAM

M. RISEN, JR. on opposing counsel at the following addresses in the following manner:

### **VIA EMAIL AND FEDERAL EXPRESS**

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David E. Moore, Esq.

dmoore@potteranderson.com

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Attorneys for Plaintiff

CALLAWAY GOLF COMPANY

## APPENDIX A

## CURRICULUM VITAE William M. Risen, Jr.

Professor of Chemistry
Department of Chemistry
Brown University
Providence, Rhode Island 02912
401-863-2611 (phone) –9046 (fax)
WRISEN@BROWN.EDU

Born: July 22, 1940, St. Louis, Missouri.

Home Address: 87 Miller Avenue

Rumford, Rhode Island 02916

401-438-3470 (phone) 401-378-8075 (cell) WRISEN@COX.NET

#### **Education**:

Walnut Hills High School, Cincinnati, Ohio, 1958 Sc.B. Chemistry, (Chemistry Honors), Georgetown University, 1962 Ph.D. Chemistry, Purdue University, 1967 Sigma Xi, Phi Lambda Upsilon, Monsanto Fellow

### **Employment**:

### **Brown University**

1975-	Professor of Chemistry, Brown University
1972-1980	Chairman, Department of Chemistry, Brown University
1972-1975	Associate Professor of Chemistry
1967-1972	Assistant Professor of Chemistry
1966-1967	Research Fellow-Instructor, Brown University
	F. M. C. Fellow

#### **External Appointments**

1991-1992	Visiting Professor McGill University, Montreal, Canada
1998	Visiting Scientist: Paul Scherrer Institute of ETH-Zurich and Swiss
	Federal Science Foundation.
2002 - 2003	Foreign Invitational Fellowship, Japan Society for the
	Promotion of Science.

#### **Affiliations:**

American Chemical Society Materials Research Society Sigma Xi

#### Institutional Service (Brown University):

Chair of the Brown University Faculty 1993 - 1994

Chairman, Department of Chemistry, 1972 – 1980

Faculty Executive Committee, 1992-1995, Vice Chair 1992 - 93; Chair 1993-1994

Associate Director, Materials Research Laboratory, 1981 – 1986

Inorganic Glasses Research Group (Materials Research Laboratory)

(Coordinator), 1973 - 1986

Advisory Committee on the Resumed Undergraduate Education

Program, 1972 - 1976

Physical Science Council, Brown University 1972 - 1977

Department Chairmen Agenda Committee, 1973 - 1980

Task Force on Non-Academic and General Affairs of the University

(Chairman), 1974 - 1975

Minority Student Advisor, 1977 – 1981

Freshman Advisor, 1981 – 1991; 1997 – 2001

Sophomore Advisor, 1992 – 1996; 1998- 2001

Task Force on Research, (Chair), 1978 - 1979

Center for Energy Studies, Executive Committee, 1978 - 1984

Chemistry-Geology Building Planning Committee, Chair, 1979 - 1980

Campus Advisory Committee on Special Studies, 1982 - 1984

University Research Council, 1981 - 1987

Project on Compensation-Coordination Committee, 1981

Dean of College Committee on Integrated Curricula, 1984

Departmental Committees; Graduate Admissions 1968 -72, 2004 - 2006 (Chair) 1999-

2001 Curriculum Committee, 1984; Undergraduate Program, 1999 (Chair),

Preliminary and Ph. D. thesis committees 1966 – 2006Committee on Admissions and Financial Aid (CAFA), 1985 - 1988; Chair, 1987 - 1988

Committee on South Africa, 1985 - 1986

Faculty Scholars Fund, Board 1982 - 1990

Division of Engineering Visiting Committee, 1986 - 1987, Chairman

Athletic Advisor, 1984 - 1987, 2006 -

Charles Evans Hughes Society; Executive Committee, 1986 - 1990

Dean of Admission and Financial Aid, Selection Committee, 1987 – 1988

Center for Advanced Materials Research, Executive Committee,

1988-1992

Advisory Council: Center for the Advancement of College Teaching,

1990 -96, Executive Committee, 1996-2003

Committee to Select the Director of Campus Security, 1990 - 1991

University Task Force on Teaching Assistants, 1991

Chemistry, Geology, Environmental Science Teaching Facility

Committee, 1991-1993, Chair

Academic Advisor: Basketball, 1992 - 1995

Athletic Advisory Council, 1990 - 1994, Chairman, 1990 - 1992

Ad Hoc Committee on Financial Aid, 1992 - 1993

Faculty Agenda Committee, 1992 - 1995

Brown University Sports Foundation, Board of Directors, 1992 -96

Campus Ad Hoc Committee on Campus Safety, Chair (1992)

Academic Council, Brown University, 1994-95

Committee on Medical Faculty Appointments 1999 – 2003

Captain, Brown University Police and Security, Selection Committee, 2007

Faculty Advisor, Varsity Baseball, 2006 -

Honorary Degree Advisory Committee,

1996-2000, Chair 1997-2000, Chair 2005-07

Sigma Xi, Scientific Honorary Society, President, Brown Univ., 2007-

#### **External Service:**

Technical Advisory Committee, Rhode Island Lung Assoc., 1969-76

Consultant, National Science Foundation (Materials Science), 1977-82:

National Science Foundation Visiting Committees:

Stanford University (Chair),

University of Chicago,

Purdue University.

Task Force on Cooperative Advances in Chemical Science and

Technology, (Co-chairman) 1979-80

NSF, DOD, DOE Program Reviews and Committees (various, 1968 - )

American Chemical Society; Presidential Conference, 1980

Board of Directors, Council for Chemical Research, 1980-82 (Founding Board)

Provost's Science Advisory Committee, Georgetown University 1981 - 83

American Chemical Society-Board/Council Committee on Chemistry

and Public Affairs (CCPA) 1982-91

Congressional Fellows Selection Committee (American Chemical Society-CCPA) Chair, 1983-85

Research and Development Funding Committee (American Chemical Society -CCPA). Chair, 1987-88

National Research Council - Chemistry Task Force-Implementation

Visiting Committee: Williams College

American Chemical Society Accreditation Committee Ad Hoc

WPI-Rutman Professor Selection Committee

International Scientific Exchange Award, NSRC - Canada,

sabbatical leave at McGill University, 1991

External examiner; Faculty of Graduate Studies, McGill University, 1994, 1995, 1998.

Visiting Scientist Fellowship, Paul Scherrer Institute, Switzerland, 1998

Gordon Conference on Ion-Containing Polymers, Co-Chair, 1999.

Judicial Performance Review for the Supreme Court of Rhode Island 1996-2000

Consultant: Chemical and Managerial Matters; US and International Companies and Law

Content Consultant - High School Chemistry; Merrill Publishing Co., 1988- 1992

## Publications William M. Risen, Jr.

- 1. Infrared Bands from Alkali Ion Motion in Solution, with W. F. Edgell, A. T. Watts, and John Lyford, IV, J. Amer. Chem. Soc. 88, 1815 (1966).
- 2. The Mass Spectrum and Preparation of Pure Manganese Pentacarbonyl Hydride, with W. F. Edgell, J. Amer. Chem. Soc. **88**, 5451 (1966).
- 3. Rate of Air Oxidations of Vanadium(II) in Acidic Aqueous Media in the Presence of Anions, with J. E. Earley, Chem. Anal. **55**, 76 (1966).
- 4. The Infrared Spectrum and Vibrational Assignments for Pentacarbonyl-manganese Hydride, with W. F. Edgell, J. W. Fisher, and G. Asato, Inorg. Chem. **8**, 1103 (1969).
- 5. Spectroscopic Studies of Metal-Metal Bonding. I. Absorption and Laser Raman Spectra and Vibrational Analyses of Cl<sub>3</sub>MCo(CO)<sub>4</sub> (M = Sn, Ge, Si), with K. L. Watters and J. N. Brittain, Inorg. Chem. **8**, 1347 (1969).
- 6. Spectroscopic Studies of Metal-Metal Bonded Compounds, with K. L. Watters, Inorg. Chem. Acta Rev. **3**, 129 (1969).
- 7. Computer Animation: On-line Dynamic Display in Real Time, with J. S. Walton, J. Chem. Educ. **46**, 334 (1969).
- 8. Far Infrared Sealed Liquid Cell with Polyethylene Windows, with A. T. Tsatsas, Appl. Spectry. 24, No. 3, 383 (1970).
- 9. The Photochemistry of Peroxodiphosphates. The Oxidation of Water and Two Alcohols, with R. L. Lussier and J. O. Edwards, J. Phys. Chem. **74**, 4039 (1970).
- 10. Quantized Ion Motion in Solution, with A. T. Tsatsas, J. Amer. Chem. Soc. 92, 1789 (1970).
- 11. The Intermolecular Vibration of Ions in Solution, with W. F. Edgell, J. Lyford, IV, R. Wright, and A. Watts, J. Amer. Chem. Soc. **92**, 2240 (1970).
- 12. Cation Motion in Ionic Copolymers, with A. T. Tsatsas, Chem. Phys. Letters 7, 354 (1970).

- 13. Vibrational Motion of Cations in Ionic Glasses, with G. J. Exarhos, Chem. Phys. Letters 10, 484 (1971).
- 14. Cation Motion in Anionic Fields of the Polyelectrolytic Salts of Ethylenemethacrylic Copolymers, with A. T. Tsatsas and J. W. Reed, J. Chem. Phys. **55**, 3260 (1971).
- 15. Spectroscopic Studies of Metal-Metal Bonding. II. The Variation of Metal-Metal Bond Strengths and Substituents from the Vibrational Analyses of  $X_3MCo(CO)_4$  (M = Sn, Ge; X= I, Br, Cl), with K. L. Watters and W. M. Butler, Inorg. Chem. 10, 1970 (1971).
- 16. Cation Vibrations in Inorganic Oxide Glasses, with G. J. Exarhos, Solid State Commun. 11, 755 (1972).
- 17. The Nature of Alkali Metal Ion Interactions with Cyclic Polyfunctional Molecules. I. Vibrations of Alkali Ions Encaged by Crown Ethers in Solution, with A. T. Tsatsas and R. W. Stearns, J. Amer. Chem. Soc. **94**, 5247 (1972).
- 18. Spectroscopic Studies of Metal-Metal Bonding. III. Vibrational Spectra and Analyses of M[Co(CO)<sub>4</sub>]<sub>2</sub> (M = An, Cd, Hg), with R. J. Ziegler, J. M. Burlitch, and S. E. Hayes, Inorg. Chem. 11, 702 (1972).
- 19. Spectroscopic Studies of Metal-Metal Bonding. V. Direct and Indirect Intermetallic Forces from the Vibrational Spectra and Analyses of M<sub>2</sub>Cl<sub>9</sub><sup>3</sup> (M = Cr, W) Ions, with R. J. Ziegler, Inorg. Chem. 11, 2796 (1972).
- 20. Spectroscopic Studies of Metal-Metal Bonding. IV. Absorption and Laser Raman Spectra and Vibrational Analyses of [(OC)<sub>5</sub>Mn- M'(CO)<sub>5</sub><sup>-</sup>] (M' = Cr, Mo, W), with J. R. Johnson and R. J. Ziegler, Inorg. Chem. 12, 2349 (1973).
- 21. Vibrational Spectral Study of Molecular Orientation in Vitreous Fibers, with P. J. Miller and G. J. Exarhos, J. Chem. Phys. **59**, 2696 (1973).
- 22. Interionic Vibrations and Glass Transitions in Ionic Oxide Metaphosphate Glasses, with G. J. Exarhos and P. J. Miller, J. Chem. Phys. **60**, 4145 (1974).

# Exhibit 2

7/20/2007

Callaway Golf Company v. Acushnet Company

William Risen

Page 1

IN THE UNITED STATES DISTRICT COURT DISTRICT OF DELAWARE

CALLAWAY GOLF COMPANY,

ORIGINAL

Plaintiff,

vs.

Civil Action No. 06-91 (SLR)

ACUSHNET COMPANY,

Defendant.

Boston, Massachusetts Friday, July 20, 2007 Volume I of II

Videotaped Deposition of WILLIAM M. RISEN, JR., Ph.D.

The witness was called for examination by counsel for the Defendant, pursuant to notice, commencing at 9:41 a.m. at the Law Offices of Fish & Richardson, P.C., 25 Franklin Street, Boston, Massachusetts, before Kimberly A. Smith, Certified Realtime Reporter, Registered Diplomate Reporter, and Notary Public for the Commonwealth of Massachusetts, when were present on behalf of the respective parties:

DIGITAL EVIDENCE GROUP
1111 16th Street, N.W., Suite 410
Washington, D.C. 20036
(202) 232-0646

- 1 0. And you understand that currently the
- 2 status of the reexamination is that there's been an
- 3 initial office action rejecting all the claims in all
- 4 four patents? Do you understand that?
- Α. I've been told that.
- 6 Q. I want to just ask you a couple questions
- 7 about your background. If you can turn to your CV,
- 8 which is kind of in the middle of the exhibit,
- 9 Appendix A. There it is.
- 10 To your knowledge, is your CV, which
- 11 I'm sure gets updated a lot, but was it accurate at
- 12 the time that you submitted this report, to your
- 13 knowledge?
- 14 Α. I believe so. There's always possibilities
- 15 of small errors, but I believe it's essentially
- 16 correct.
- 17 I understand that you have consulted with Ο.
- 18 Spalding in the past, and Callaway in the past; is
- 19 that correct?
- 20 Α. Yes.
- 21 When did you first consult for Spalding?
- 22 A. For the Spalding Company, I believe it was
- 23 1989. It could have been 1990, but I believe it was
- 24 about then.
- 25 Q. And have you consulted with Spalding in its

```
Page 31
1
     various corporate forms fairly consistently from that
2
     time to the present?
3
          Α.
               Yes.
4
          Q.
               When you first consulted with Spalding in
5
     '89 or '90, did you sign a consultation agreement?
 6
               I don't recall signing one in the first --
7
     early stages. I may have. But I don't have that in
 8
     my records.
 9
          Q.
                Do you remember at some point signing a --
10
               Oh, yes.
          Α.
11
          Q.
               -- consultation agreement?
12
          Α.
                Yes.
13
          Q.
                Do you remember approximately when the
14
     first one that you recall is? Would it have been in
15
     the '90s?
16
          Α.
                It would have been in the mid '90s, I think.
17
                How were you paid for your consultation?
           0.
18
     Was it on an hourly rate?
19
           Α.
                Yes.
20
           Q.
                And what was your rate when you first
21
     consulted with Spalding; do you recall?
22
           Α.
                No.
23
           Q.
                It was less than 270 an hour --
24
           Α.
                Yes.
25
           0.
                -- I assume?
```

Page 32 1. Can you give me a general sense for 2 how that rate has changed over time? Actually let me 3 back up and ask the first question first. Is your consultation rate with 5 Spalding now \$270 an hour? 6 Yes. Well, it's with Callaway, but yes. 7 With Callaway. How has that rate changed Q. 8 over time since you first started consulting with 9 Spalding? 10 Well, it's gone up little by little, I 11 think it's fair to say, over about a 15-to-20-year 12 So it probably started somewhere around \$100 13 and graduated up. 14 Q. Forgive the personal nature of this 15 question, but do you have any idea or any sense for 16 how much money over the years Spalding and/or 17 Callaway has paid you for your consulting activities? 18 Α. No. 19 Do you know whether it's more than 100,000? Q. 20 Α. Yes. 21 Q. Do you know whether it's more than a 22 million? 23 Α. I'd be surprised if it were that much 24 money. 25 Q. Okay.

Page 33 1 Α. I'm quite sure it's not. 2 Fair enough. Do you own any stock in Q. 3 Callaway? Α. No. 5 Have you ever owned any stock in Callaway 6 or Spalding other than through mutual funds or 7 anything like that? 8 Α. No. 9 I understand that you are a named inventor Q. 10 on several patents that are owned by Callaway. 11 Is that right? 12 Α. Yes. 13 0. That relate to golf balls. Is that right? 14 Α. . Yes. 15 Q. Is there any incentive program or reward

patents? 18 Α. No.

16

17

- 19 You've never received any monetary
- 20 recognition for your contributions to intellectual

program that you are a party to with respect to those

- 21 property at the company?
- 22 Α. That's right.
- 23 Q. Can you give me a rough sense for how your
- 24 time involvement has changed over time since the time
- 25 you first started working with Spalding in '89 or '90

- to the present?
- A. Well, the time that I spent at Spalding and
- then Top-Flite, and now Top-Flite is part of Callaway,
- 4 has been of two kinds. Some of it is episodic in
- 5 which there is a problem that arises, and a good deal
- of time is needed to be spent in a concentrated way.
- And sometimes it's not, in which I would spend a day
- or more a month consulting at the R&D laboratories.
- 9 Q. Could you characterize your total
- involvement over the years as increasing, decreasing,
- steady, or without pattern?
- 12 A. I don't think there's a significant
- pattern. It's been, as I said, some combination of
- working with folks there and advising them about
- technology on a regular basis, plus episodic
- 16 concentrations of time.
- Q. Can you give me a sense generally of the
- 18 types of consultation that you have provided to
- 19 Spalding/Top-Flite/Callaway over the years?
- 20 A. The one kind that is fairly steady involves
- 21 working with the scientists and technicians in the
- laboratory, trying to answer their questions, give
- them some help in interpreting their data, perhaps
- 24 making suggestions about things they can try, helping
- 25 them understand some literature or locate some

- 1 literature.
- 2 The ones that are episodic in nature
- 3 involve responding to some particular problem that
- may be a problem in interpretation of literature.
- 5 Or it may be a problem in taking something to
- 6 manufacturing. Or it could be helping to expand on
- 7 some ideas to take them to further development or
- 8 something of the sort.
- 9 Q. What brought you to Spalding in the first
- 10 instance?
- 11 Well, I was asked to testify and work as an Α.
- 12 expert in the case involving Spalding and Acushnet in
- 13 the early 1980s. At that time the law firm that
- 14 first contacted me was Lahive & Cockfield in Boston.
- 15 Eventually the case was taken over first by Alegretti
- 16 Witcoff in Chicago and then McAndrews, Held & Malloy
- 17 in Chicago. And I was asked to do various things in
- 18 preparation for the trial.
- 19 Then after all of it was over, some
- 20 years later the folks at Spalding thought that I had
- 21 indicated an interest and an ability in the field and
- 22 asked if I would be willing to consult with them.
- 23 Was that experience in the early '80s
- 24 working with Spalding on that litigation your first
- 25 foray into golf ball-specific issues?

- A. Yes.
- Q. And did you do any work in that field from
- 3 the time of that case to the time that you started
- 4 consulting with Spalding in '89 or '90?
- A. Pardon me? Would you ask that again,
- 6 please?
- Q. Sure. Between the time that you worked on
- the litigation with Spalding in the early '80s and
- <sup>9</sup> the time that you began consulting with Spalding in
- 1989, did you do any other golf ball-related work?
- 11 A. Let me -- let me remind you of the time
- scale a little bit. I think, starting in about
- 13 1983 -- although it could be a year or two one way or
- the other -- the case between Acushnet and Spalding
- 15 involved various kinds of testing that I observed on
- behalf of Spalding, and its attorneys. And then it
- involved a hearing before a special master in Boston
- District Court. And then it involved a trial. And
- 19 then it involved an appeal. And that dragged out
- over about six years. And I believe the appeal
- 21 finally was nullified by a settlement between the two
- companies. And I believe that happened in about
- 1989.
- And so all of the work that I did
- that had anything to do with golf between 1983

- approximately and 1989 had to do with supporting the
- attorneys' efforts in that case. And when that was
- over, then -- I believe it was Terry Melvin who was
- 4 in charge of the research and development operation --
- 5 asked me if I would consider consulting with the
- 6 company.
- 7 Q. Thanks. That makes more sense to me.
- 8 I didn't understand that time line.
- 9 You may have said this already, but
- did you testify at trial in that Acushnet/Spalding
- 11 case?
- 12 A. I testified twice. First there was a
- hearing in the -- before a special master at the
- 14 appointment of a district judge in the Federal
- District for Boston. And I testified in that matter.
- And then it went to a full trial, and I testified at
- the trial.
- Q. Was the nature of your testimony in those
- 19 two instances that of a factual percipient witness or
- of an expert?
- A. I believe I was there as an expert.
- Q. And what was the general subject matter of
- your testimony?
- A. The initial testimony had to do with the
- infringement of the patents -- the patent. Basically

- there was one patent at stake, I think, primarily.
- I believe I was on the stand a little bit later in a
- rebuttal role, but I don't recall much about that.
- Q. And the issue there was whether Acushnet
- infringed Spalding's patent?
- A. Yes. It was a patent by Robert Molitor
- 7 from the early 1970s.
- 8 O. Is this the blended ionomer?
- 9 A. That's correct.
- Q. Do you recall whether you submitted an
- expert report in that case?
- 12 A. I don't.
- Q. And you weren't deposed in that case?
- A. I don't believe so. I think trials --
- cases were handled differently in those days.
- Q. During the course of that case, did you
- have an opportunity to work with or against Bill
- 18 MacKnight?
- A. Professor MacKnight was, I believe, an
- 20 expert consultant to the law firm that represented
- 21 Acushnet. I don't recall that he testified.
- Q. Do you recall analyzing any of
- Dr. MacKnight's opinions?
- A. I don't recall seeing any of his opinions.
- Q. Do you know Professor MacKnight personally?

- l A. Yes.
- Q. Other than in the context of that
- 3 litigation, do you know him personally?
- A. Yes. I think it's fair to say I've met him
- 5 at a number of professional society meetings, and at
- 6 least one time when I gave a lecture at the
- 7 University of Massachusetts.
- Q. Do you have an opinion of his professional
- 9 reputation?
- 10 A. Yes.
- Q. And what is that opinion?
- 12 A. It's very good.
- Q. Would you consider him an expert in
- polymeric materials?
- A. Certainly the ones that he's studied.
- Q. Do you know Bob Statz?
- A. Less well than I know Professor MacKnight.
- But Dr. Statz also has attended some professional
- meetings that I've attended. And I've had a chance
- to hear him talk. He's had a chance to hear me talk.
- 21 And we have had occasional social interactions at
- those meetings.
- Q. Do you have an opinion of his professional
- 24 reputation?
- A. That's a little trickier because folks in

- industry, by and large, are not in a position to
- 2 reveal the details of their research as they develop
- materials. He certainly is known as one of the
- 4 people responsible for the development in the '70s
- and '80s, and perhaps later, of some of the materials
- 6 that he's worked on, including Surlyns.
- Q. So I gather from that answer that because
- 8 of the nature of industry's work as opposed to
- 9 academia, that you haven't really had a chance to
- form an opinion as to his professional reputation?
- A. He has a professional reputation as a
- 12 chemist who has developed materials at and for DuPont
- that has been expressed in some public fora and in
- patents that is well regarded by those who use
- materials of the sort that he's worked on.
- But people in industry have a
- different sort of reputation because it tends to be
- wrapped up in the company's products rather than in
- 19 the independent research projects that are done in a
- <sup>20</sup> university laboratory.
- Q. Other than your work with Spalding and
- 22 Callaway, have you ever -- do you have any other
- 23 experience specific to golf ball design or
- development or construction?
- A. Not if you include the legal work that I

- <sup>1</sup> did.
- Q. I do. Nothing else other than what you've
- done with Spalding and Callaway? I'm wondering if
- 4 there are other companies that you may have consulted
- 5 with in this field?
- 6 A. I have not.
- Q. During the course of your work with
- 8 Spalding and Callaway, have you ever conducted
- 9 performance tests on golf balls?
- A. Golf balls perform in a lot of different
- ways. Which ones do you mean?
- Q. Well, let's start with things like initial
- velocity and spin rate. Have you conducted those
- sorts of tests on golf balls, or had tests conducted
- at your direction?
- A. I've certainly observed the tests being
- 17 carried out. I don't know that I've directed people
- to do either spin testing or initial velocity
- 19 testing.
- Q. In the course of your work with Spalding
- 21 and Callaway, have you tested hardness of materials,
- or had that testing conducted at your direction?
- A. I've certainly observed that test being
- done a number of times on golf balls. But whether --
- $^{25}$  whether I was the specific director of those tests in

7/21/2007

Callaway Golf Company v. Acushnet Company

William Risen

Page 237

IN THE UNITED STATES DISTRICT COURT DISTRICT OF DELAWARE

CALLAWAY GOLF COMPANY,

ORIGINAL

Plaintiff,

vs.

Civil Action No. 06-91 (SLR)

ACUSHNET COMPANY,

Defendant.

Boston, Massachusetts Saturday, July 21, 2007 Volume II of II

Videotaped Deposition of WILLIAM M. RISEN, JR., Ph.D.

The witness was called for examination by counsel for the Defendant, pursuant to notice, commencing at 9:35 a.m. at the Law Offices of Fish & Richardson, P.C., 25 Franklin Street, Boston, Massachusetts, before Kimberly A. Smith, Certified Realtime Reporter, Registered Diplomate Reporter, and Notary Public for the Commonwealth of Massachusetts, when were present on behalf of the respective parties:

DIGITAL EVIDENCE GROUP
1111 16th Street, N.W., Suite 410
Washington, D.C. 20036
(202) 232-0646

William Risen

- 1 more narrow, obviously.
- Are you an expert in the market
- 3 conditions that have existed in the golf ball
- 4 industry over the last 15 years?
- 5 A. I don't -- I certainly know something about
- the industry, and I've heard a fair amount about it.
- 7 I play golf and I read magazines. And so I know
- 8 something about it. But I don't have the kind of
- 9 expertise that a market analyst or a financial
- analyst or a sales organization might have.
- 11 Q. Do you consider yourself to be an expert in
- 12 that area?
- 13 A. In?
- Q. Market conditions of the golf ball industry
- $^{15}$  in the last 15 years.
- A. I know some aspects about it. I don't know
- all of them.
- Q. Do you consider yourself to be an expert in
- the demand for golf balls over the last 10, 15 years?
- A. Not quantitatively. I have some idea what
- golfers like to play and what the pros have played
- and what kinds of balls respond to the needs of
- people, simply by playing golf, talking to golfers,
- reading golfing magazines, talking to people in the
- Top-Flite/Callaway company about the kinds of

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- products they would like to develop for different
- 2 markets and so forth. But I have not sold any golf
- 3 I haven't marketed them. And I haven't
- studied the field as a financial analyst.
- 5 Q. Have you ever reviewed or studied customer
- 6 surveys regarding their preferences for golf balls?
- 7 I've looked at some, but not in an
- 8 analytical fashion.
- 9 In what context have you looked at
- 10 information like that?
- 11 Oh, I've attended meetings in the research
- 12 and development world where people would say there is
- 13 a need for this or that kind of a golf ball.
- 14 they would sometimes back it up by saying that we
- 15 have a survey that says that softer balls are more
- 16 popular than harder ones at this time or balls with
- 17 this or that or the other characteristic would be
- 18 useful in certain markets and back it up by saying
- 19 either we have a survey to that effect or that
- 20 particular kind of ball made by this particular kind
- 21 of manufacturer is selling well these days or
- 22 something of that sort. But that's not a broad-based
- 23 expertise of market analytical type.
- 24 Have you conducted any studies of the golf
- 25 ball market since, let's say, 2000 and what's driven

- the success of various balls in that market?
- 2 Α I've not conducted a specific study.
- 3 0. Have you had any conducted at your
- direction?
- 5 Α. No.
- 6 Have you seen any sales figures for the 0.
- 7 Pro V1, Rule 35 ball, and other golf balls in the
- 8 golf ball market?
- 9 If I have, it's rather incidental, Α.
- 10 something that I might see in a golf magazine or
- 11 something.
- 12 Q. For the purposes of your analysis that's
- 13 set forth in your report, did you review any of that
- 14 sort of material?
- 15 Well, I saw some advertisements and other Α.
- 16 marketing pieces that were provided and listed in the
- 17 back; but apart from that, nothing other than my
- 18 general knowledge and general reading.
- 19 Q. Have you ever seen any figures on how much
- 20 Acushnet spends on marketing?
- 21 A. Not -- I've heard some rumors about it many
- 22 years ago, but I haven't heard anything about it
- 23 recently.
- 24 What were the rumors many years ago?
- 25 That they spent a lot of money supporting Α.

- professionals on tour.
- Q. Have you seen any figures about how much
- 3 they spend on their tour strategy?
- 4 A. No.
- <sup>5</sup> Q. Have you seen any comparisons of Acushnet's
- 6 spending on marketing and tour strategy as compared
- 7 to other golf ball companies?
- 8 A. Pardon me. Was the first part of that
- question, have I seen figures?
- 10 O. Yes.
- 11 A. No.
- Q. Have you seen any comparison, qualitative
- or quantitative, between what Acushnet spends on
- 14 marketing and tour spending as opposed to other golf
- ball companies?
- A. Have I heard any comparison?
- Q. Have you seen any comparison?
- A. I don't think I've seen any comparisons
- about spending in that regard.
- Q. Have you seen any data regarding the amount
- of money that Acushnet spends on developing its on-
- 22 and off-course distribution channels?
- A. I haven't seen data.
- Q. Have you seen any information with respect
- to that information?

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- A. I have not seen any.
- Q. Have you heard any?
- A. Sure. People talk in the field all the
- time about how much Acushnet spends on developing the
- 5 tour. In fact, not just the main PGA tour, but the
- 6 LPGA tour and the -- I think it's now called the
- nationwide tour, the secondary professional tour
- providing product to college and high school teams,
- <sup>9</sup> junior tournaments, tournaments within the Titleist
- professional groups, I believe, and advertising in
- 11 general.
- Q. My question was more specifically tailored
- to development of on-course distribution channels and
- off-course distribution channels like retail outlets,
- things like that. Have you seen any data or heard
- any data about how much Acushnet spends to develop
- that network of distribution channels?
- A. I've certainly not seen any data. And I
- don't believe I've heard any. If I have, it's very
- general kind of scuttlebutt within the field.
- Q. Do you have any information about how much
- 22 Callaway spends to develop its distribution channels?
- 23 A. No.
- Q. What about how much Callaway spends on its
- tour strategy and marketing?

- A. I don't have any data on that at all.
- Q. Now, you have set forth in your expert
- 3 report a number of opinions with respect to
- 4 commercial success, correct, starting on paragraph 211?
- <sup>5</sup> A. Yes.
- Q. Now, in this report, you express your
- opinion that the commercial success of the Pro V1
- golf ball is due primarily to the Sullivan patents,
- 9 right?
- 10 A. Yes. To the product itself, yes.
- 11 Q. I'm sorry. Did you say "to the product"?
- 12 A. To the product itself, sure.
- Q. My question was, is it your opinion that
- the commercial success of the Pro V1 product is due
- to primarily the technology that's claimed in the
- patents-in-suit?
- A. Primarily, yes.
- Q. And in the course of expressing those
- opinions, you express a lot of opinions about what
- 20 drives people to buy golf balls and, in particular,
- what drives people to buy the Pro V1 golf ball,
- 22 right?
- A. Right.
- Q. What sources of information do you base
- your knowledge and opinions about that question on?

Page 255 1 MR. SHUMAN: Objection. Form. THE WITNESS: May I respond? 3 BY MR. ROSENTHAL: You can answer. Q. Yes. 5 Α. The ball construction and performance ---6 the Pro V1, at least the original one, and I believe 7 the other ones in a derivative sense, have gained a 8 reputation of having the kind of performance that 9 good players want to achieve. And the performance is 10 closely associated with the construction and 11 properties that are imparted by the Sullivan patent. 12 One of the aspects of your opinion, as I 13 understand it, is that you believe that that 14 construction is the primary driving force behind the 15 demand for the golf ball, right? 16 Α. Yes. 17 My question is, on what sources of 0. 18 information do you base your opinion that the 19 construction and performance of the golf ball is the 20 primary driving factor of its demand? 21 Well, some of it has to do with the way in 22 which the advertising reflects the opinions about 23 performance. And that is a way of communicating to 24 golfers, the ones who actually buy golf balls, as 25 opposed to the pros. And that advertising is

- 1 designed to communicate certain performance
- characteristics. And I've seen a lot of those ads,
- 3 both by reading golf magazines and by the particular
- ads and marketing material that are referred to in
- 5 the report.
- Have you ever seen any studies about the
- 7 effect that brand loyalty has on golfers' choice of
- 8 golf balls?
- 9 Α. I don't think I've seen studies.
- 10 Q. Have you ever seen any studies on the
- 11 effect that the fact that tour players play
- 12 particular balls has on golfers' choices of golf
- 13 balls to buy?
- 14 I have not seen studies. Α.
- 15 Q. Have you seen any information about that
- 16 topic?
- 17 I'm not sure it would qualify as information. Α.
- 18 I've heard people write -- I have heard people talk
- 19 about it and I've seen people write about it in
- 20 magazines, but it mostly is characterized, by me at
- 21 least, as opinion.
- 22 What is your opinion with respect to the
- 23 effect of pro players playing a golf ball on the
- 24 demand for that golf ball in the marketplace?
- 25 Α. I think it has some effect. And I think

- 1 that's why golf companies pay professionals to play
- 2 their golf ball or play their golf clubs or do
- 3 whatever kind of marketing and advertising they do.
- But it's only a part of the picture. It's not even a
- 5 very big part of the picture sometimes because most
- 6 club players -- the ones who actually buy golf
- balls -- don't view themselves as professionals, and
- 8 they take word of mouth from other people in their
- 9 own clubs or their own golf outing groups, and very
- 10 often they follow other kinds of trends if it's
- 11 simply a matter of what properties they're looking
- 12 There were a period when very soft golf balls
- 13 were a fad. There were other kinds of periods.
- 14 So they tend to follow performance, I think.
- 15 0. And you've characterized what the golf ball
- 16 marketplace generally does in terms of what
- 17 influences their decisions and the relative
- 18 importance of golf pros versus what their friends and
- 19 golf pros are playing and word of mouth and
- 20 What do you base your opinion on how performance.
- 21 all those things interplay with one another?
- 22 MR. SHUMAN: Objection. Form.
- 23 THE WITNESS: Well, to the extent that I
- 24 can reflect what my personal experience is, it's, of
- 25 course, limited to my personal experience, which

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- 1 means playing with some limited number of people in
- 2 Rhode Island and Massachusetts and Florida and
- Arizona and various places that I've played.
- I see reflected in some of the golf
- 5 advertising and marketing, as well as in the way
- 6 people in the industry speak, that golfers are
- 7 influenced by a number of things. In particular, the
- 8 performance of the ball relative to their own ability
- 9 and the courses on which they play.
- 10 And some golfers -- in fact, many
- 11 golfers will buy products that have as their primary
- 12 characteristics that they are very good at providing
- 13 distance. And others will select balls that feel
- 14 fairly soft when they hit them. Others will
- 15 provide -- play ones which get the ball up in the air
- 16 pretty fast. They have a high spin rate.
- 17 The performance characteristics of
- 18 the Pro V1 and other golf balls that are based on the
- 19 Sullivan technology has a combination of properties
- 20 that attracts a wide range of golfers.
- 21 BY MR. ROSENTHAL:
- 22 The first part of your answer, I think you
- 23 were addressing what I asked, which was what you base
- 24 your opinion about what guides these choices.
- 25 correct in saying that that's primarily based on your

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personal opinion and your personal observations?

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- A. Plus confirmation of it by what I read in
- the golf magazines and hear in the industry. But
- 4 it's certainly not primarily on formal statistically
- 5 graded studies.
- Q. Now, in your report -- and we'll get to
- 7 this -- you rely on declarations of Davis Love,
- 9 Jr. -- or Davis Love, III, I should say, and Jerry
- 9 Bellis; is that right?
- 10 A. Yes.
- 11 Q. Why did you rely on the statements which
- are contained in those declarations?
- A. Well, statements from professionals are
- statements based on the experience of people who have
- enough skill to tell how the ball actually performs,
- whereas for most people the performance of a shot is
- a reflection not only of the ball, but of a lot of
- other conditions. Professionals can control those
- conditions a lot better than most other people.
- 20 And so it's good to do that. That's one reason to
- 21 ask for such opinions.
- Q. With respect to -- Let's continue just
- discussing Mr. Love. Is it fair to say that a
- professional like Mr. Love is in a good position to
- <sup>25</sup> reliably discuss what performance attributes of the